

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

05/14/2011

Debra Payton
Assistant District Attorney, Norfolk County

Dear ADA Payton,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]
Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan & Kate Corbett
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan
Chemist II
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6631
Annie.Khan@state.ma.us

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Maintenance and repairs of all analytical instruments.

*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

*Responsible for the Quality Control/Quality Assurance program for the drug lab.

*Notary Public.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

*Writing, revising and reviewing Standard Operating Procedures (SOPs).

*Trained and supervised new chemists and interns for the department.

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Kate A. Corbett

Education

Bachelor of Science Degree, CHEMISTRY May 2003

MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

Employment

Chemist II State Laboratory Institute (March 2008-Present)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

Chemist I State Laboratory Institute (2005-March 2008)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

Research Associate (September 2003 – August 2005)

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

Intern (March 2003 – August 2003)

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION

The Commonwealth of Massachusetts

Executive Office of Health and Human Services

Department of Public Health

State Laboratory Institute

Boston Drug Laboratory

Tel (617) 983-6622

Fax (617) 983-6625

Amherst Drug Laboratory

Tel (413) 545-2601

Fax (413) 545-2608

Boston Hours

8:00 – 11:00

2:00 – 4:00

Amherst Hours

9:00 – 12:00

1:00 – 3:00

DRUG RECEIPT

City or Department:

Quincy

Police Reference No.

Name and Rank of Submitting Officer:

Det W Ward

Defendant(s) Name (last)

To be completed by Submitter

Description of Items Submitted

To be completed by Lab Personnel

Gross Weight

Lab Number

one plb brownish powder

2.38 gm

one plb w/ Coca Cola can w/ brownish residue

23.25 gm

Received by:

[Signature]

Date:

11.5.10

No. [REDACTED] Date Analyzed: 1/31/11
City: Quincy Police Dept.
Officer: Detective WILLIAM WARD
Def: [REDACTED]
Amount: Subst: SUB
No. Cont: 1 Cont: pb
Date Rec'd: 11/05/2010 No. Analyzed:
Gross Wt.: 2.38 Net Weight: 0.31
Tests: 4AD
.2KAC
Prelim: Heroin Findings: Heroin

No. [REDACTED] Date Analyzed: 1/31/11
City: Quincy Police Dept.
Officer: Detective WILLIAM WARD
Def: [REDACTED]
Amount: Subst: RES
No. Cont: 1 Cont: metal container
Date Rec'd: 11/05/2010 No. Analyzed:
Gross Wt.: 23.25 Net Weight:
Tests: 5AD
.2KAC
Prelim: Heroin Findings: Heroin

DRUG POWDER ANALYSIS FORM

SAMPLE # AGENCY Quincy ANALYST ADJ

No. of samples tested: Evidence Wt.

PHYSICAL DESCRIPTION:

Beige powdered substance
in 1 pb

Gross Wt (): 0.4773

Gross Wt ():

Pkg. Wt:

Net Wt: 0.3118

PRELIMINARY TESTS

Spot Tests

Cobalt
Thiocyanate (+)

Marquis +

Froehde's +

Mecke's +

Microcrystalline Tests

Gold
Chloride

TLTA ()

OTHER TESTS

PRELIMINARY TEST RESULTS

RESULTS Heroin

DATE 1-24-11

GC/MS CONFIRMATORY TEST

RESULTS Heroin

MS
OPERATOR KAC

DATE 1-31-11

DRUG POWDER ANALYSIS FORM

SAMPLE # AGENCY Quincy ANALYST ASJ
No. of samples tested: Evidence Wt.

PHYSICAL DESCRIPTION:

Residue in metal container
(can)

Scraped + rinsed (outside)

Gross Wt ():

Gross Wt ():

Pkg. Wt:

Net Wt:

PRELIMINARY TESTS

Spot Tests

Cobalt
Thiocyanate (+)
Marquis +
Froehde's +
Mecke's +

Microcrystalline Tests

Gold
Chloride
TLTA ()

OTHER TESTS

GC+

PRELIMINARY TEST RESULTS

RESULTS Heroin
DATE 1-24-11

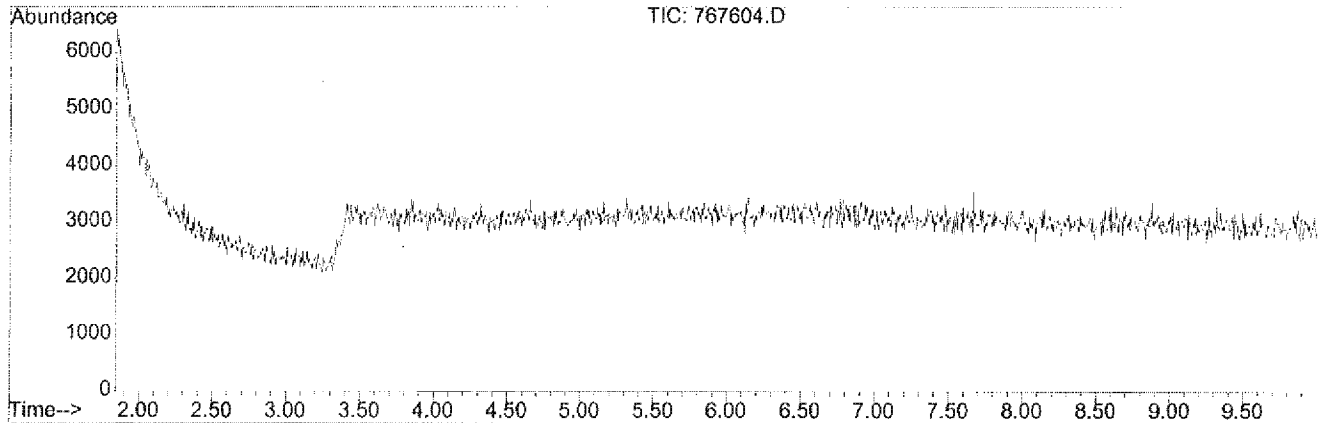
GC/MS CONFIRMATORY TEST

RESULTS Heroin
MS
OPERATOR KAC
DATE 1-31-11

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM8\01_25_11\767604.D
Operator : ASD/KAC
Date Acquired : 25 Jan 2011 7:41
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



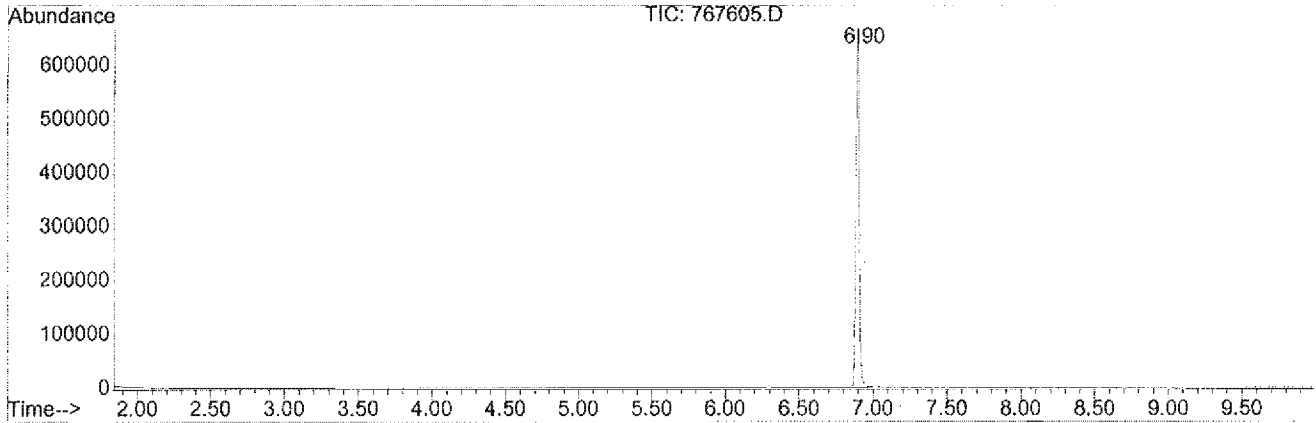
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM8\01_25_11\767605.D
Operator : ASD/KAC
Date Acquired : 25 Jan 2011 7:54
Sample Name : HEROIN STD
Submitted by :
Vial Number : 5
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.897	1012807	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

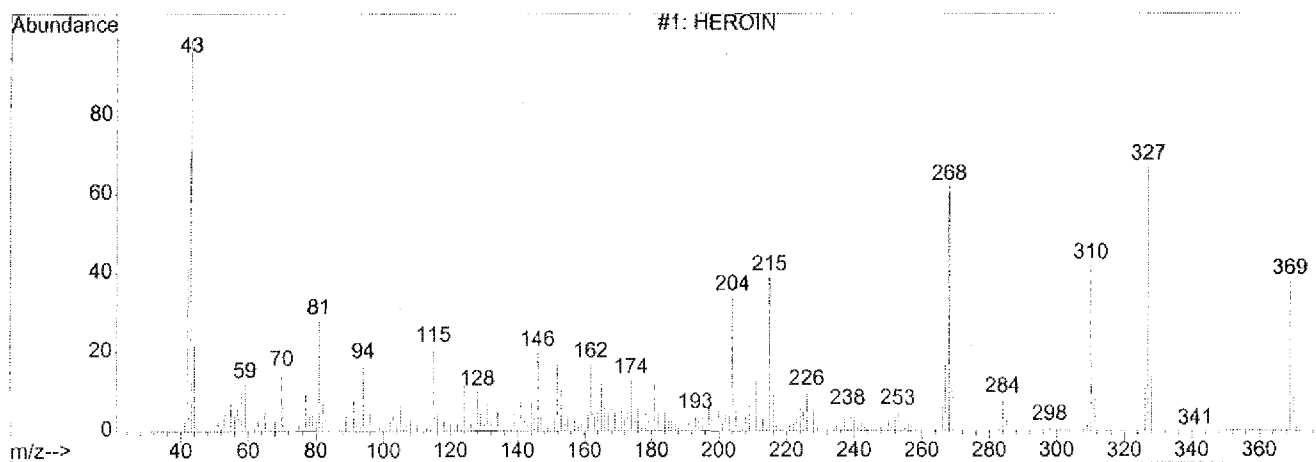
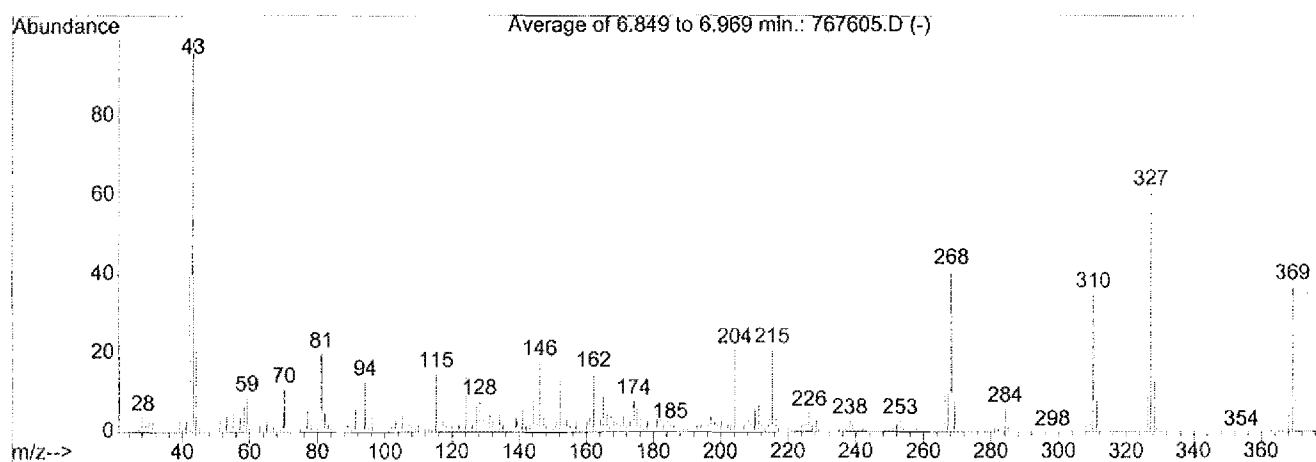
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File Name       : F:\Q1-2011\SYSTEM8\01_25_11\767605.D
Operator        : ASD/KAC
Date Acquired   : 25 Jan 2011   7:54
Sample Name     : HEROIN STD
Submitted by    :
Vial Number     : 5
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
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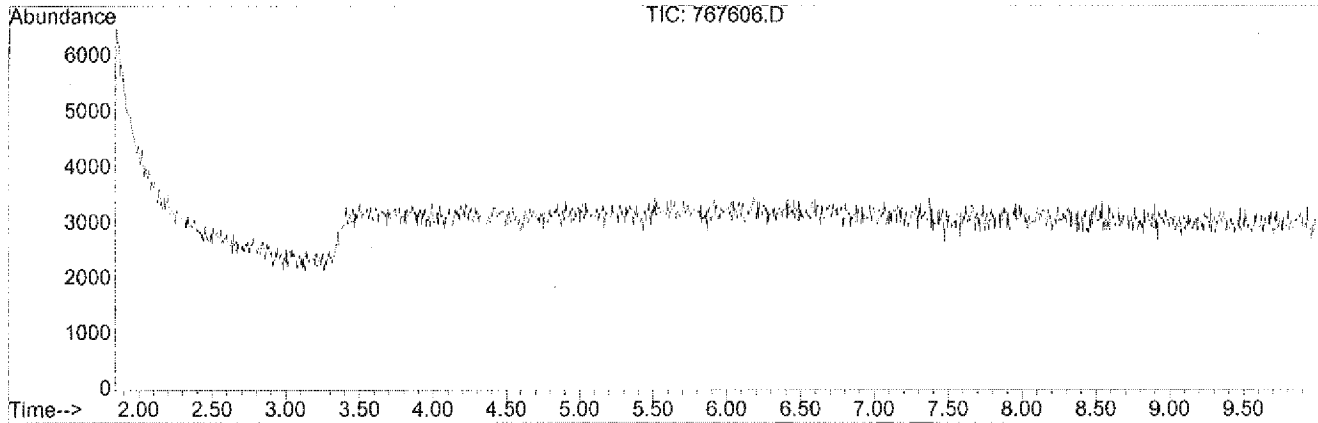
PK#	RT	Library/ID	CAS#	Qual
1	6.90	C:\DATABASE\SLI.L HEROIN	000561-27-3	97



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM8\01_25_11\767606.D
Operator : ASD/KAC
Date Acquired : 25 Jan 2011 8:07
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



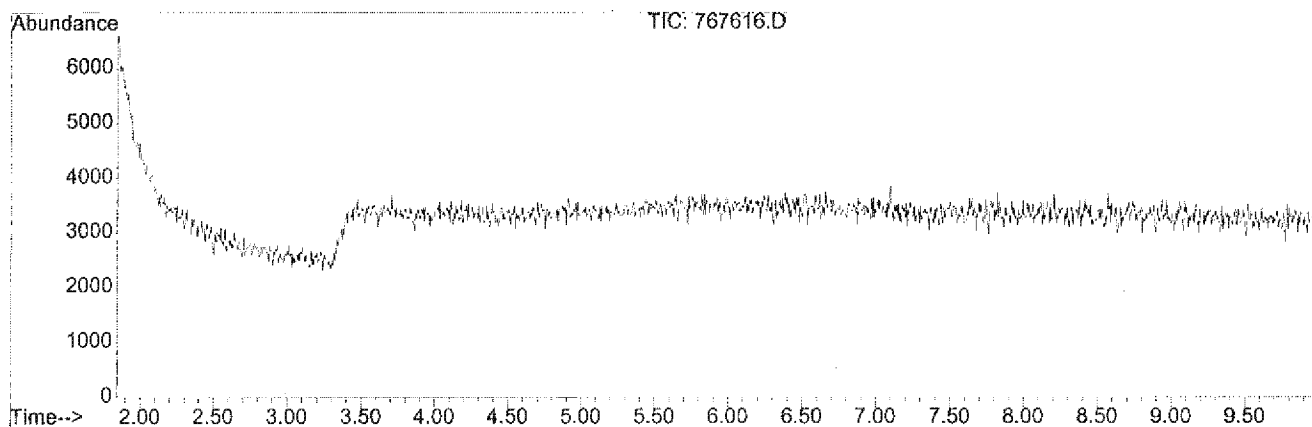
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM8\01_25_11\767616.D
Operator : ASD/KAC
Date Acquired : 25 Jan 2011 10:13
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



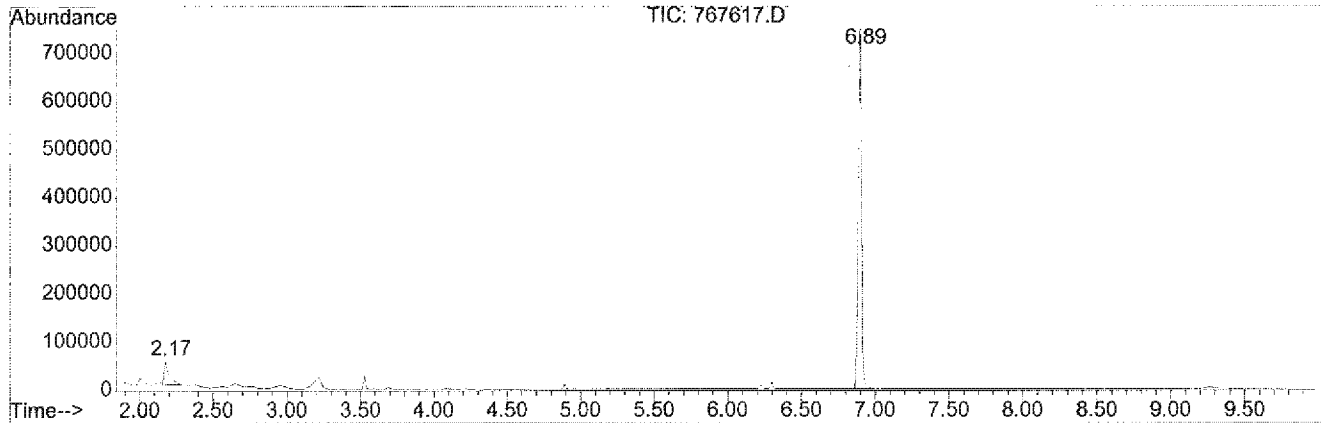
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM8\01_25_11\767617.D
 Operator : ASD/KAC
 Date Acquired : 25 Jan 2011 10:26
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 17
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.172	107094	8.48	9.26
6.891	1156264	91.52	100.00

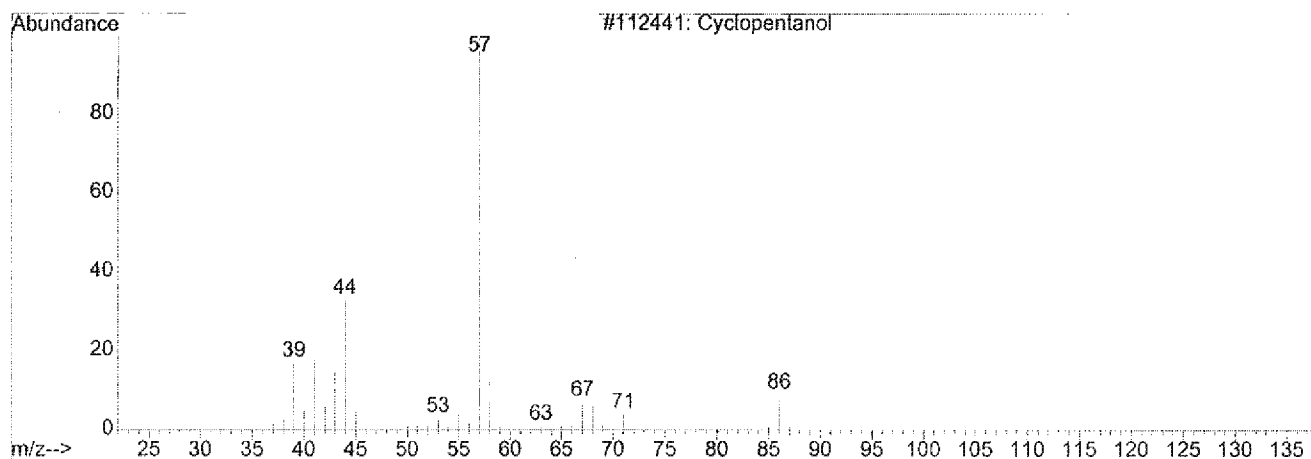
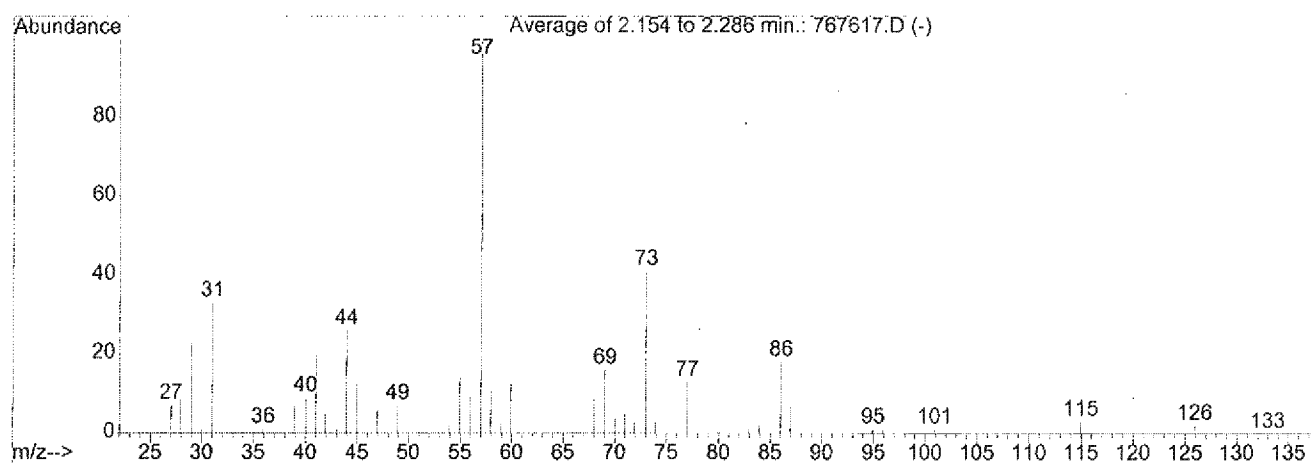
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM8\01_25_11\767617.D
 Operator : ASD/KAC
 Date Acquired : 25 Jan 2011 10:26
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 17
 AcquisitionMeth: DRUGS
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
 C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
 C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	2.17	C:\DATABASE\NIST98.L		
		Cyclopentanol	000096-41-3	38
		2-Penten-1-ol, (E) -	001576-96-1	38
		2-Penten-1-ol, (E) -	001576-96-1	32



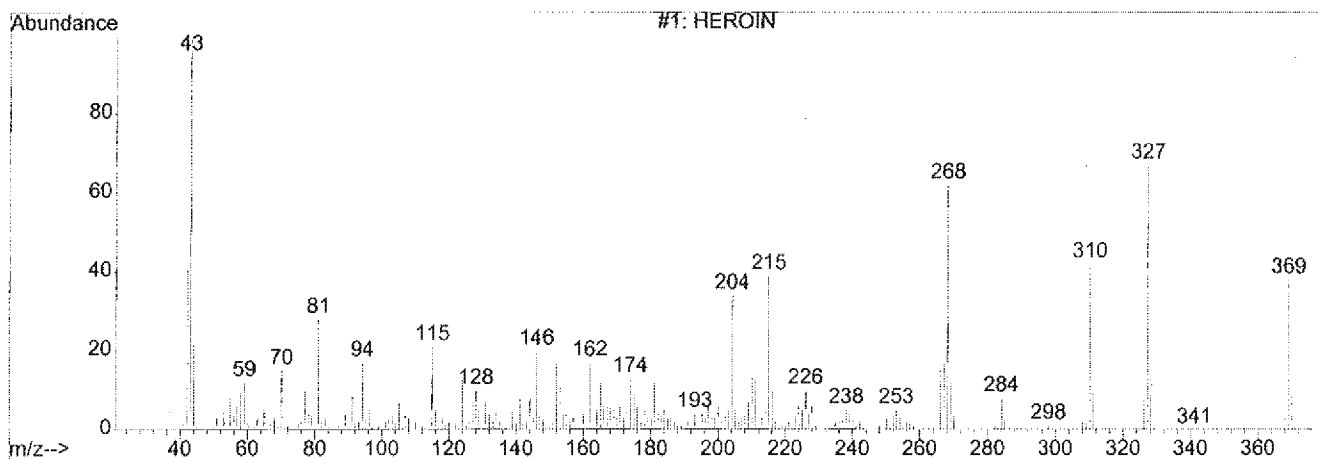
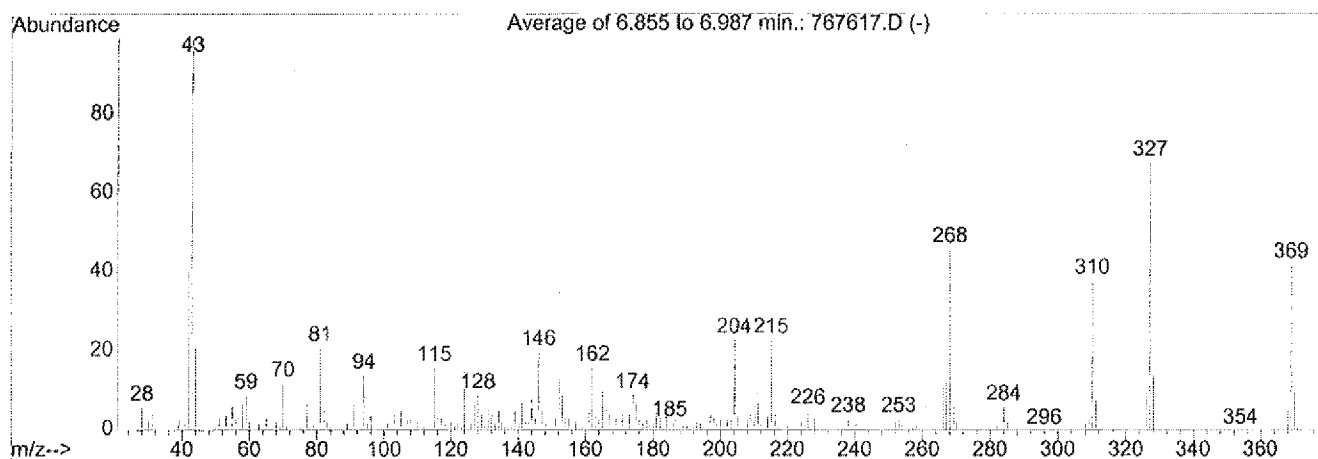
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM8\01_25_11\767617.D
 Operator : ASD/KAC
 Date Acquired : 25 Jan 2011 10:26
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 17
 AcquisitionMeth: DRUGS
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
 C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
 C:\DATABASE\NIST98.L

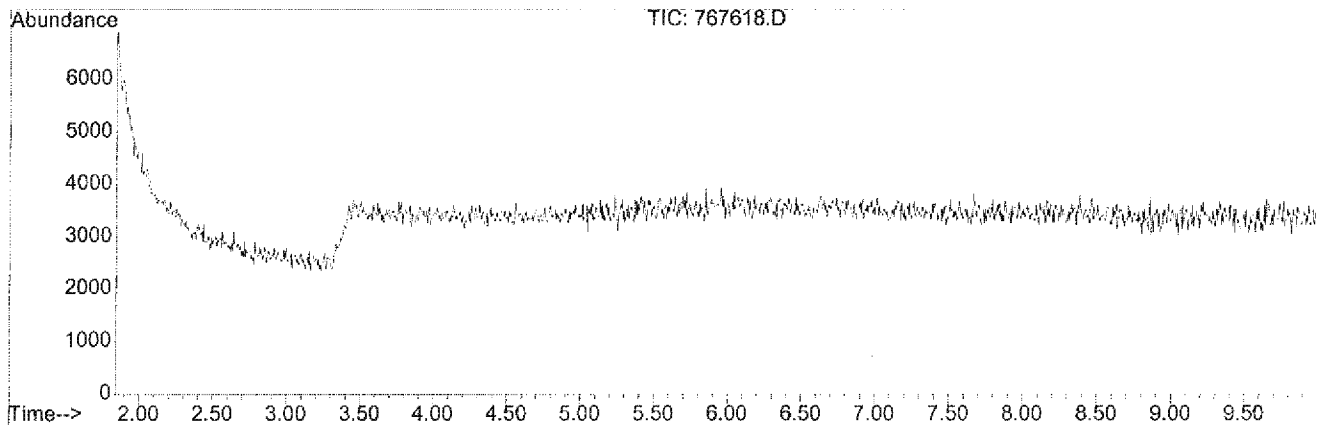
PK#	RT	Library/ID	CAS#	Qual
2	6.89	C:\DATABASE\SLI.L HEROIN	000561-27-3	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM8\01_25_11\767618.D
Operator : ASD/KAC
Date Acquired : 25 Jan 2011 10:39
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



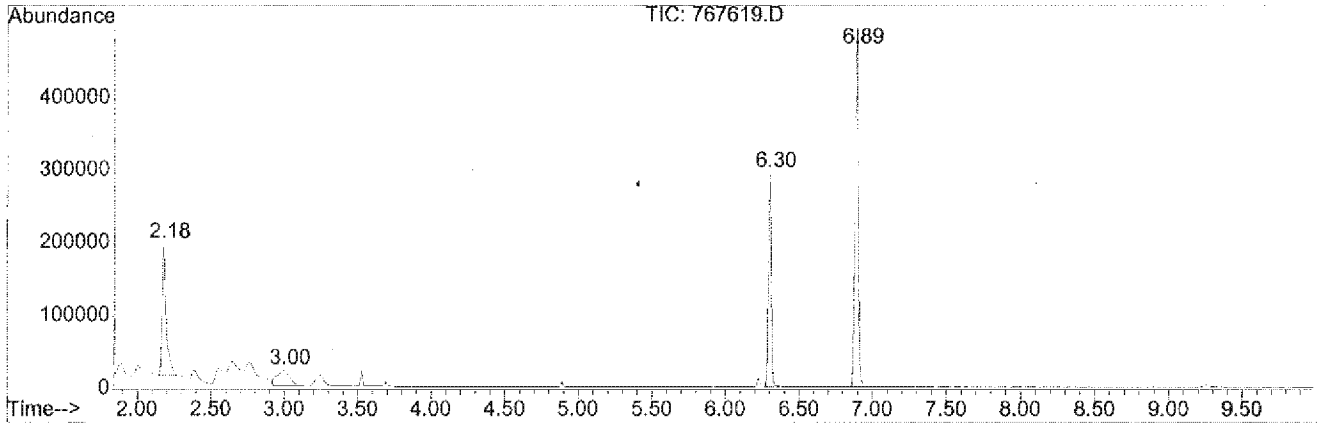
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM8\01_25_11\767619.D
 Operator : ASD/KAC
 Date Acquired : 25 Jan 2011 10:51
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 19
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.178	346058	21.58	45.93
2.999	125804	7.85	16.70
6.298	378314	23.59	50.21
6.891	753440	46.98	100.00

Area Percent / Library Search Report

Information from Data File:

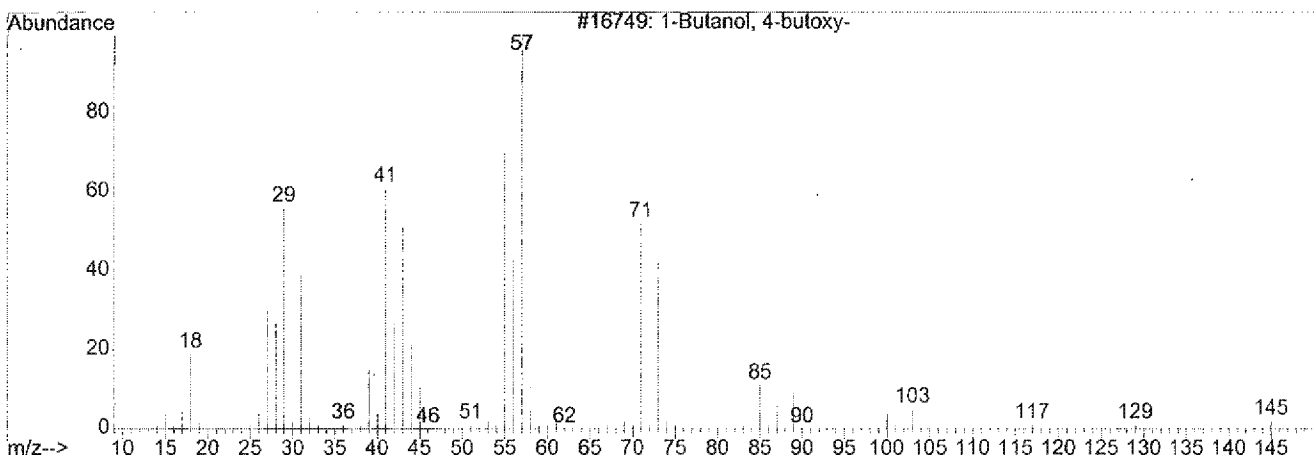
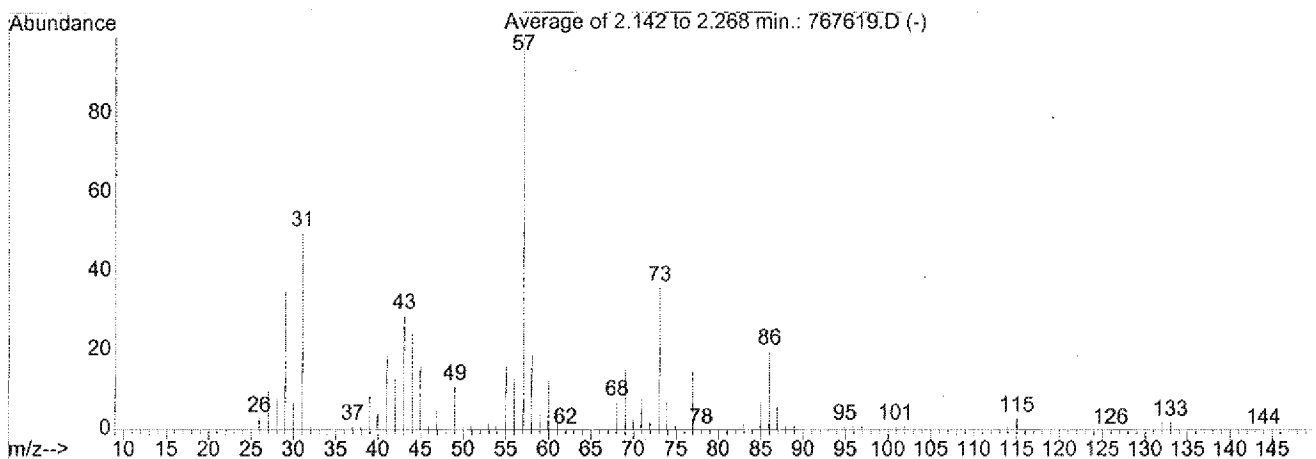
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File Name       : F:\Q1-2011\SYSTEM8\01_25_11\767619.D
Operator        : ASD/KAC
Date Acquired   : 25 Jan 2011  10:51
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 19
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	2.18	C:\DATABASE\NIST98.L		
		1-Butanol, 4-butoxy-	004161-24-4	40
		Oxirane, 2,2'-[oxybis(methylene)]bi	002238-07-5	25
		2-Deoxyribose	1000126-06-2	23



Area Percent / Library Search Report

Information from Data File:

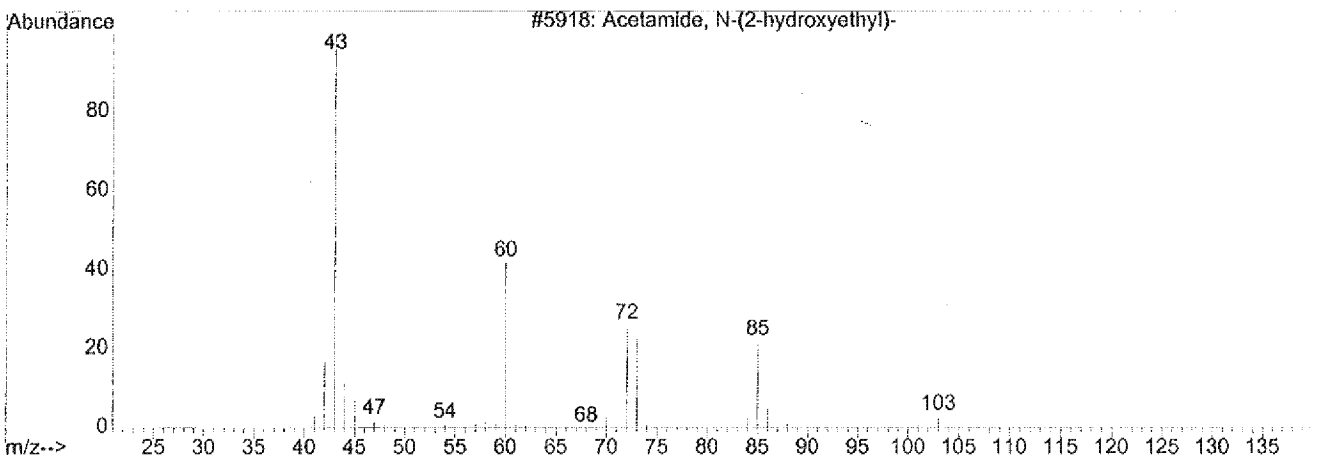
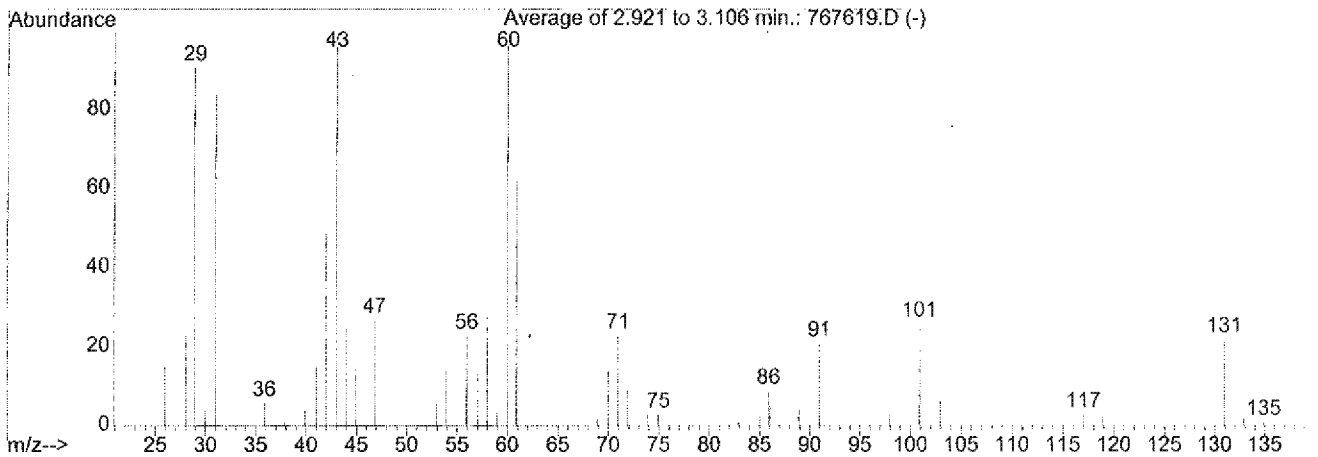
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File Name       : F:\Q1-2011\SYSTEM8\01_25_11\767619.D
Operator        : ASD/KAC
Date Acquired   : 25 Jan 2011  10:51
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 19
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
2	3.00	C:\DATABASE\NIST98.L		
		Acetamide, N-(2-hydroxyethyl)-	000142-26-7	43
		Carbonic acid, ethyl 2-mercaptoethy	005628-96-6	37
		Oxirane, (ethoxymethyl)-	004016-11-9	12



Area Percent / Library Search Report

Information from Data File:

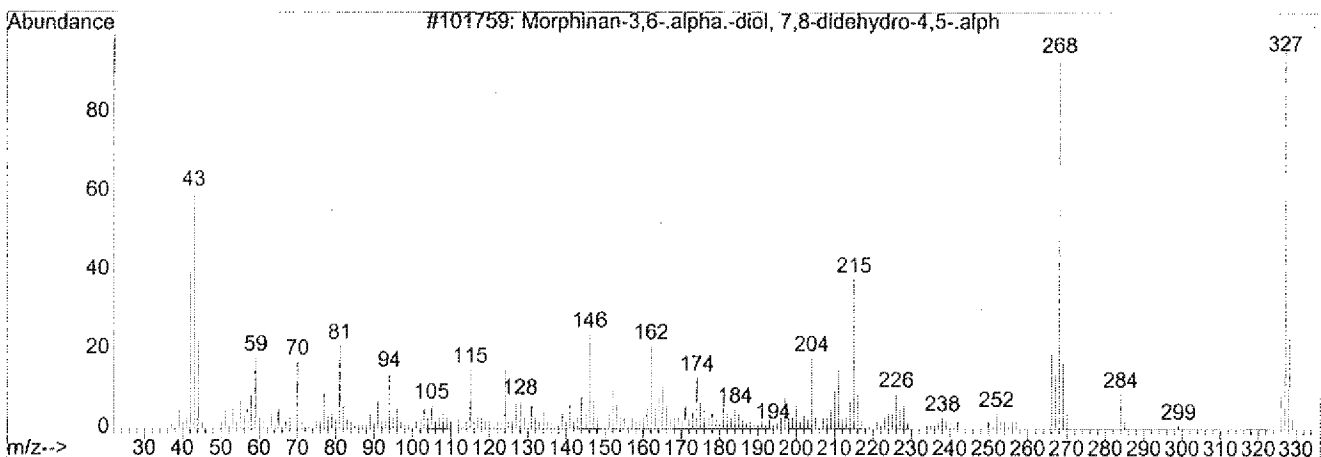
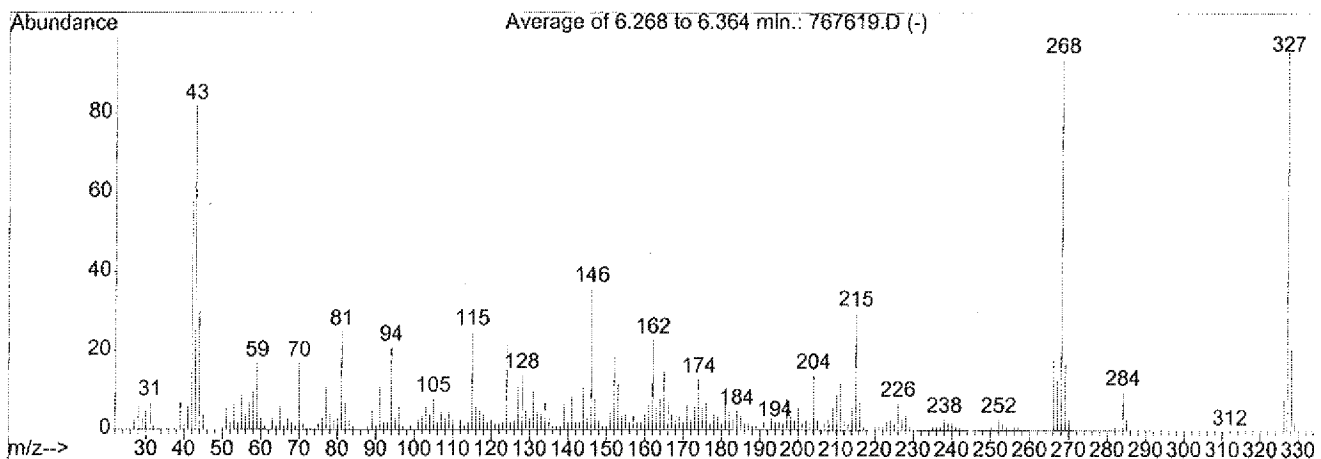
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File Name       : F:\Q1-2011\SYSTEM8\01_25_11\767619.D
Operator        : ASD/KAC
Date Acquired   : 25 Jan 2011  10:51
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 19
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
3	6.30	C:\DATABASE\NIST98.L		
		Morphinan-3,6-.alpha.-diol, 7,8-did	002784-73-8	99
		Morphin, 6-acetyl-	1000153-00-3	96
		Morphinan-3,6-.alpha.-diol, 7,8-did	002784-73-8	50



Area Percent / Library Search Report

Information from Data File:

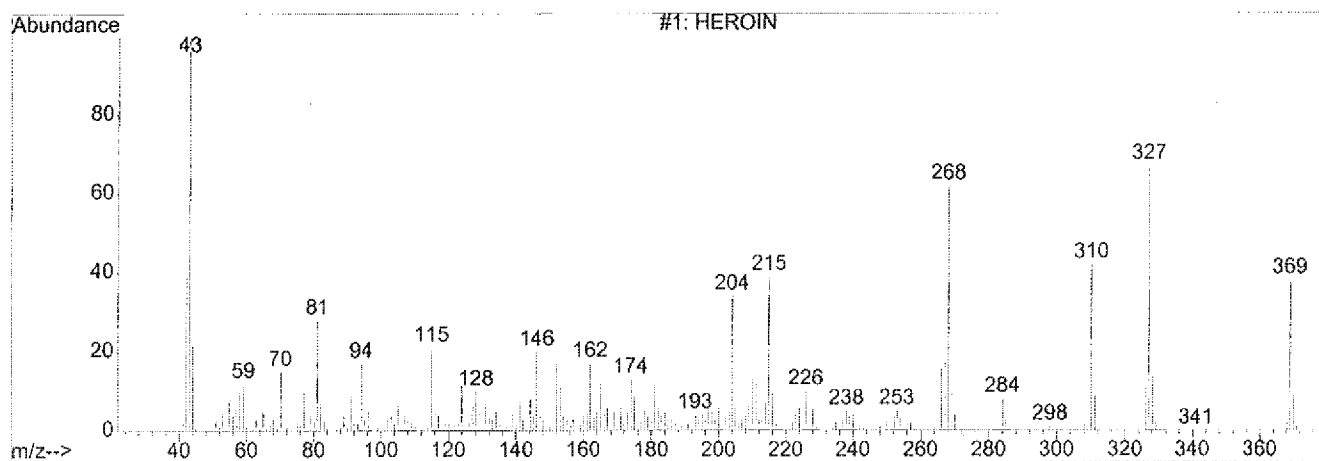
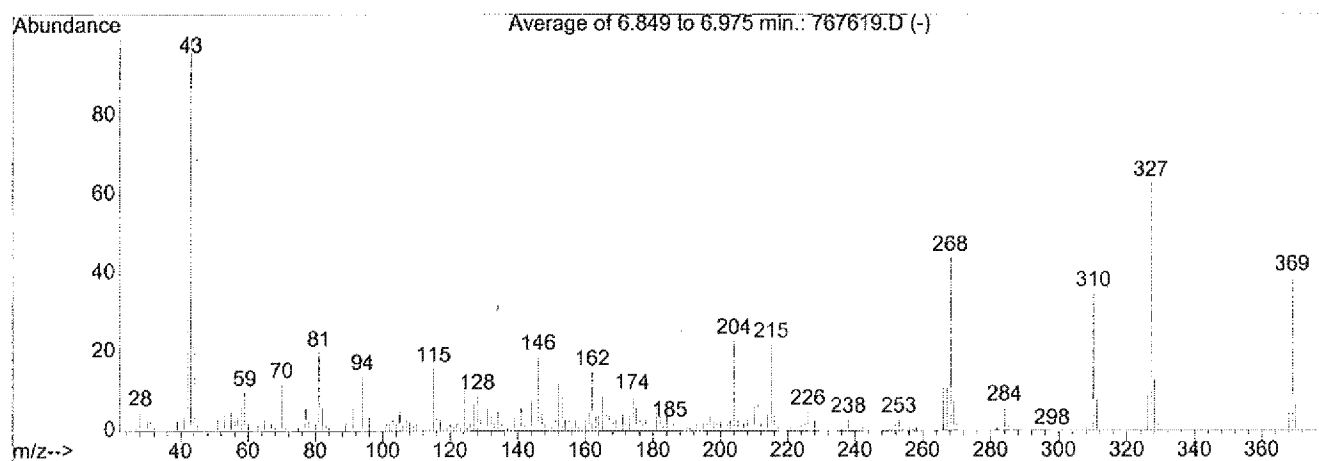
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File Name       : F:\Q1-2011\SYSTEM8\01_25_11\767619.D
Operator        : ASD/KAC
Date Acquired   : 25 Jan 2011  10:51
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 19
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

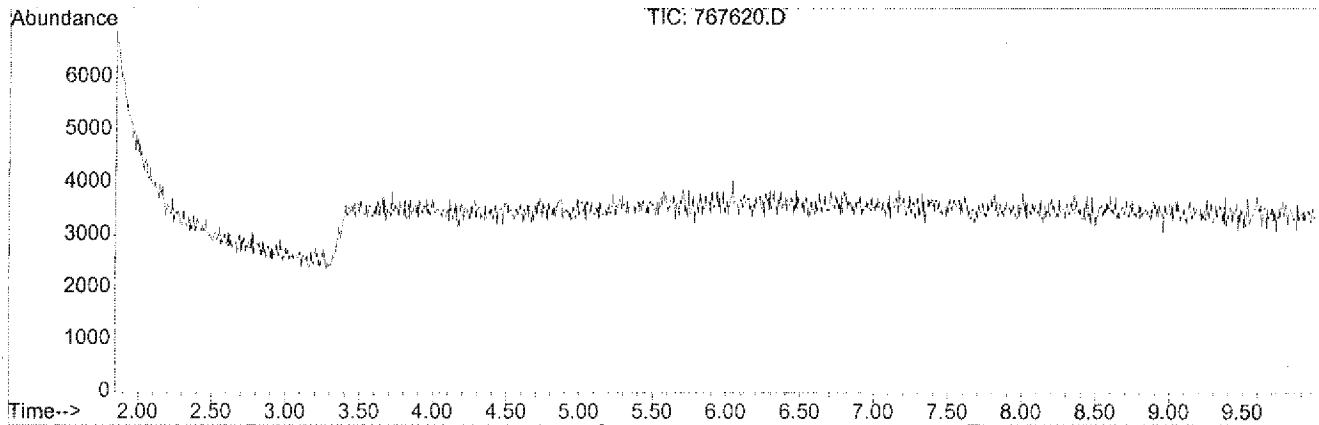
PK#	RT	Library/ID	CAS#	Qual
4	6.89	C:\DATABASE\SLI.L HEROIN	000561-27-3	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM8\01_25_11\767620.D
Operator : ASD/KAC
Date Acquired : 25 Jan 2011 11:04
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



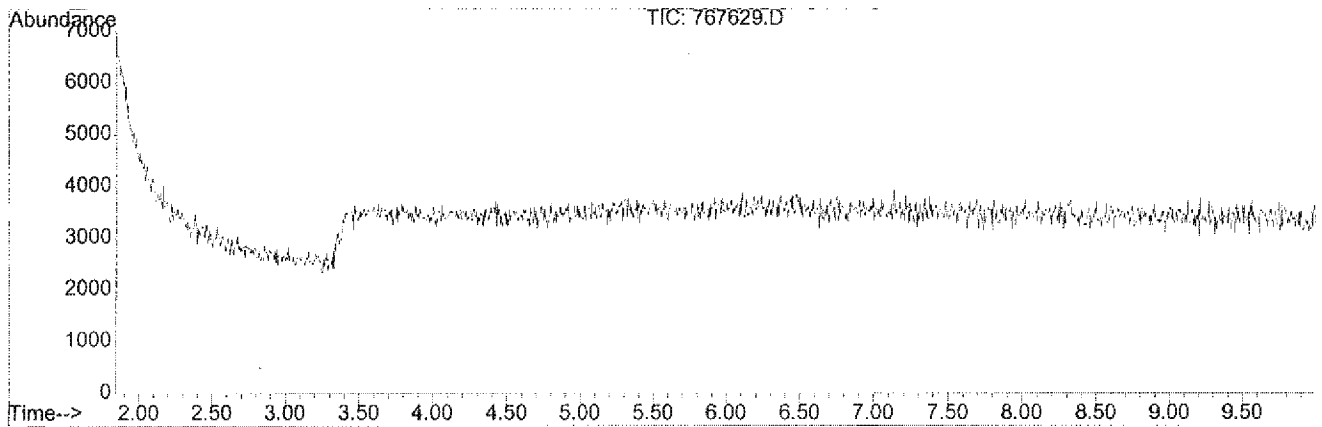
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM8\01_25_11\767629.D
Operator : ASD/KAC
Date Acquired : 25 Jan 2011 12:56
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



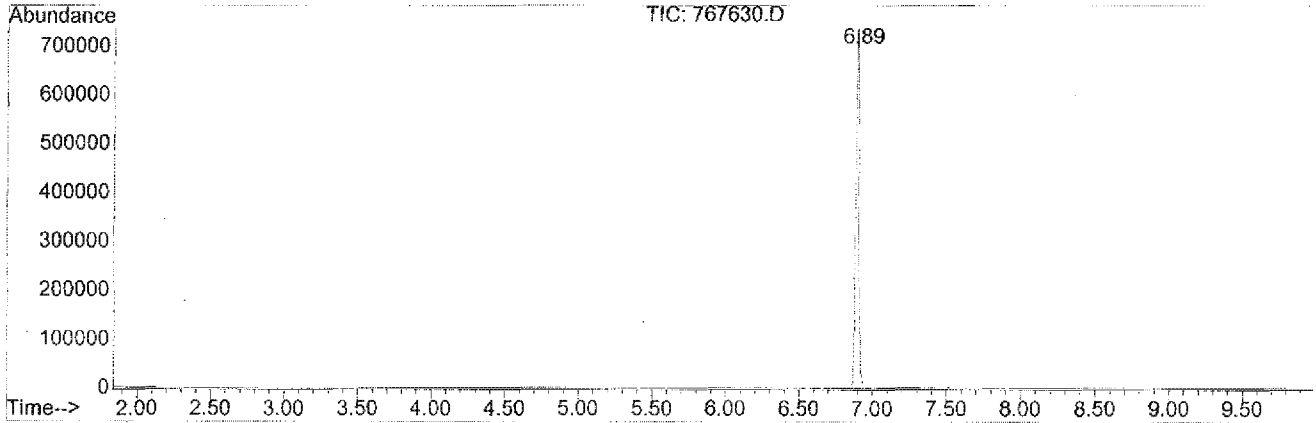
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM8\01_25_11\767630.D
Operator : ASD/KAC
Date Acquired : 25 Jan 2011 13:09
Sample Name : HEROIN STD
Submitted by : ASD
Vial Number : 5
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.891	1122939	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

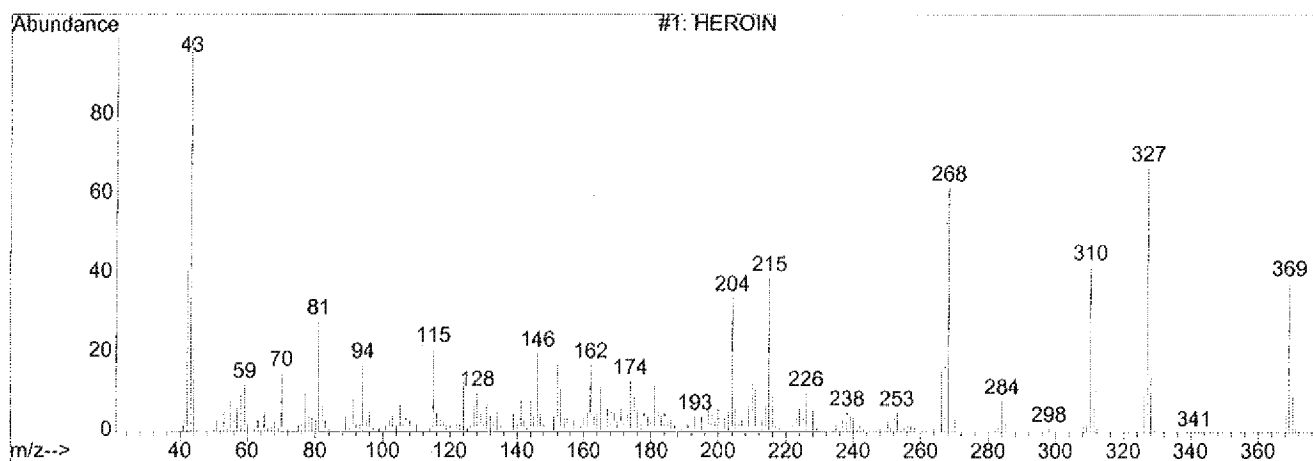
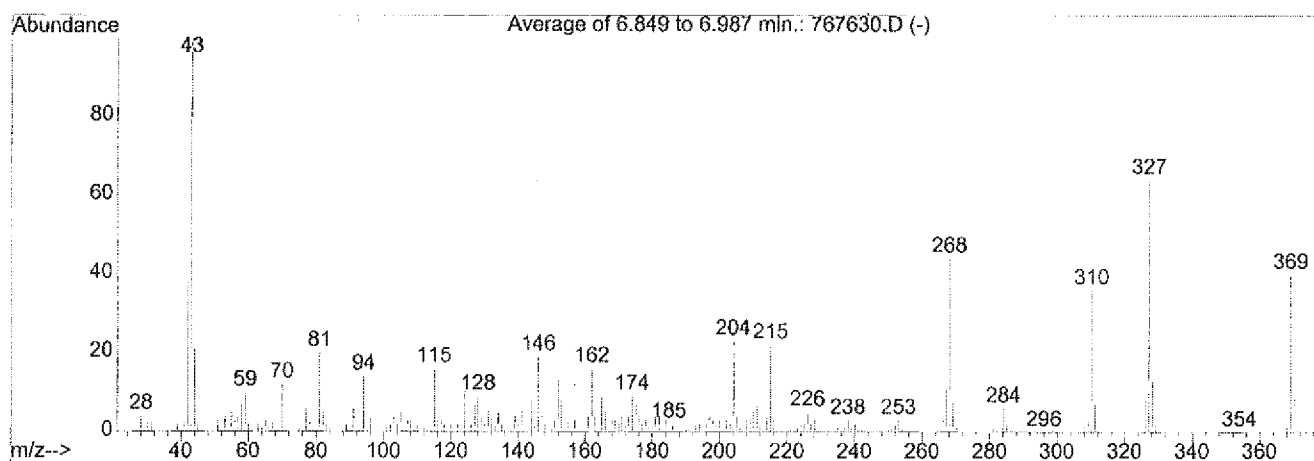
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File Name       : F:\Q1-2011\SYSTEM8\01_25_11\767630.D
Operator        : ASD/KAC
Date Acquired   : 25 Jan 2011  13:09
Sample Name     : HEROIN STD
Submitted by    : ASD
Vial Number     : 5
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

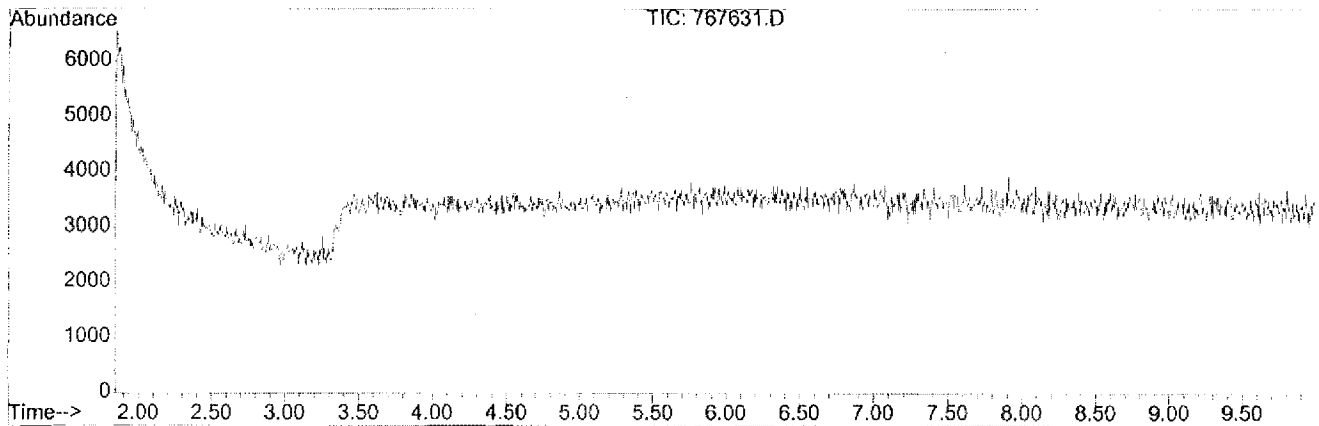
PK#	RT	Library/ID	CAS#	Qual
1	6.89	C:\DATABASE\SLI.L HEROIN	000561-27-3	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q1-2011\SYSTEM8\01_25_11\767631.D
Operator : ASD/KAC
Date Acquired : 25 Jan 2011 13:21
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS